

Figure 1

Schematic Representation of Construction of a Virus-Like-Particle Producing Tumor Cell

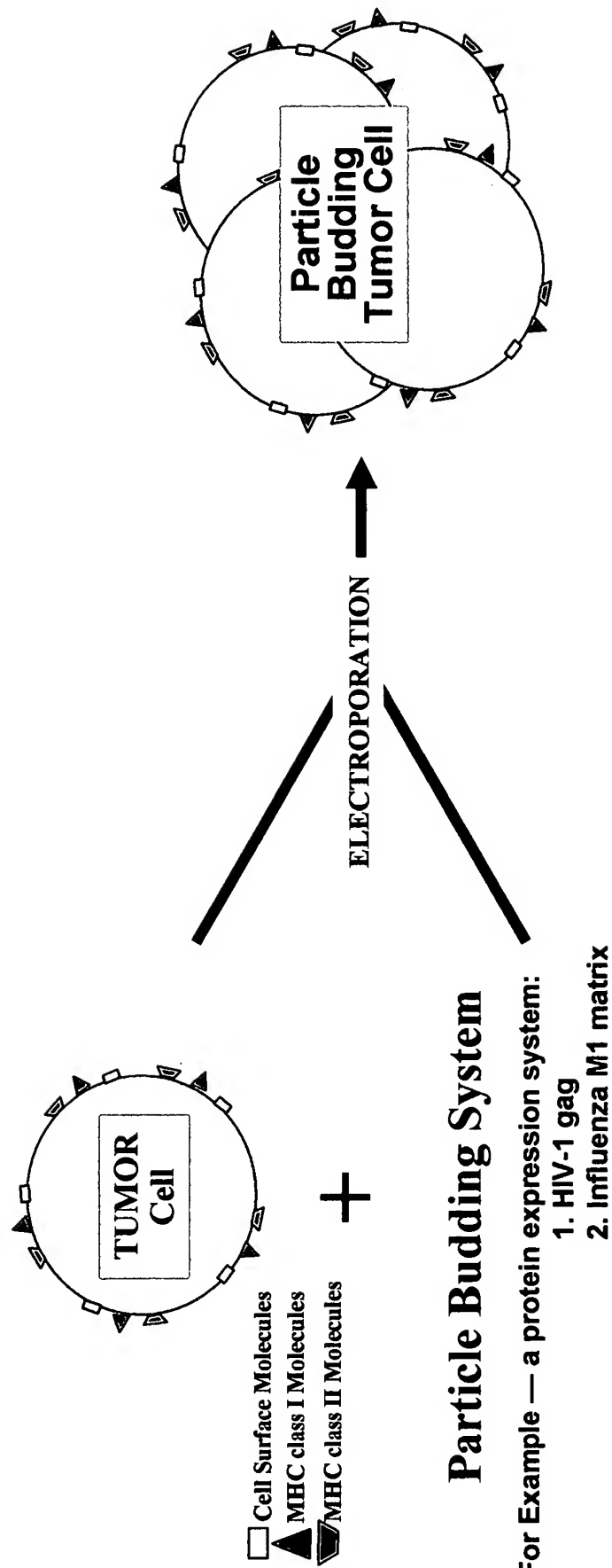


Figure 2

Schematic Representation of the introduction of Co-stimulatory Molecules into the budding particles released from tumor cells

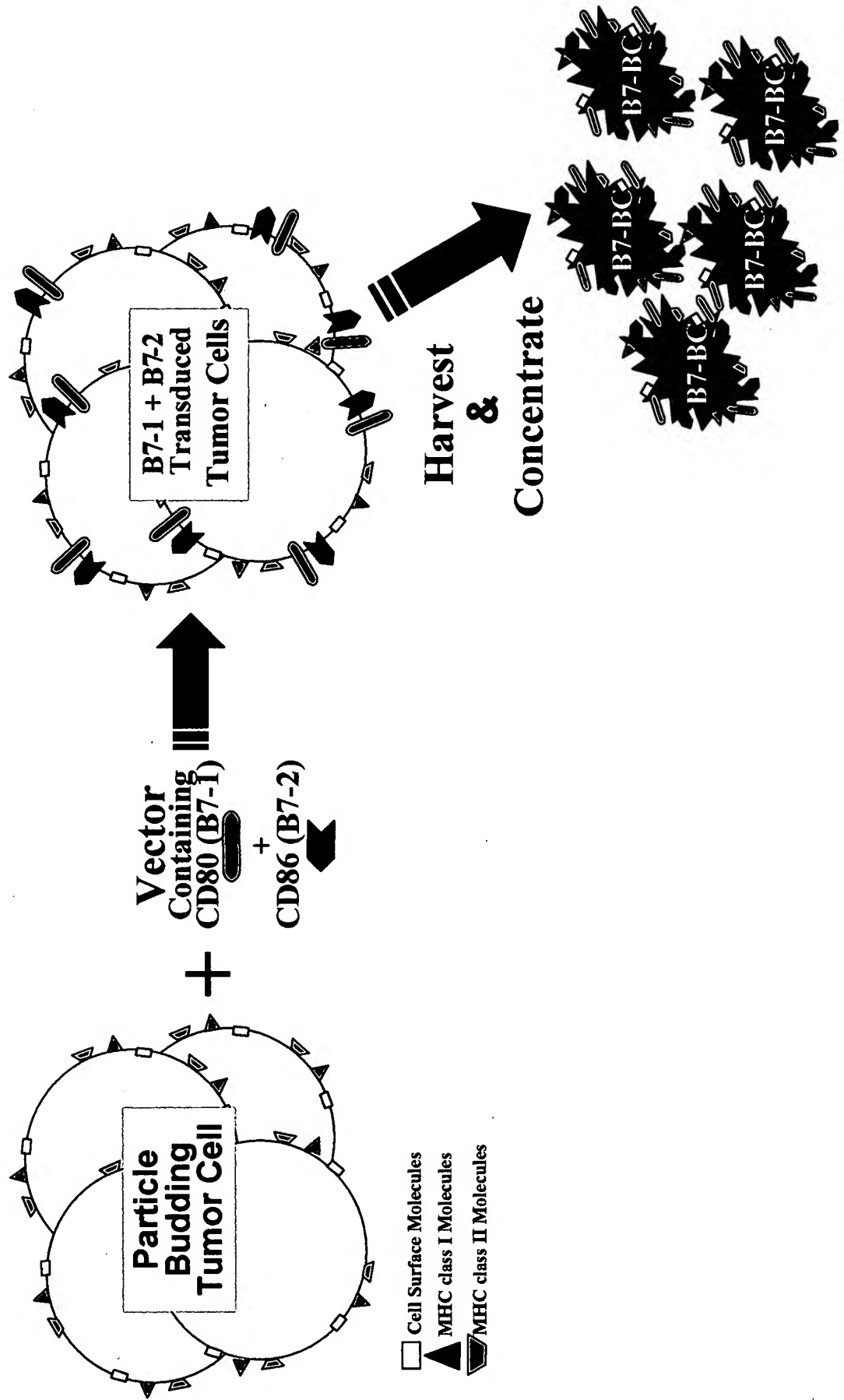
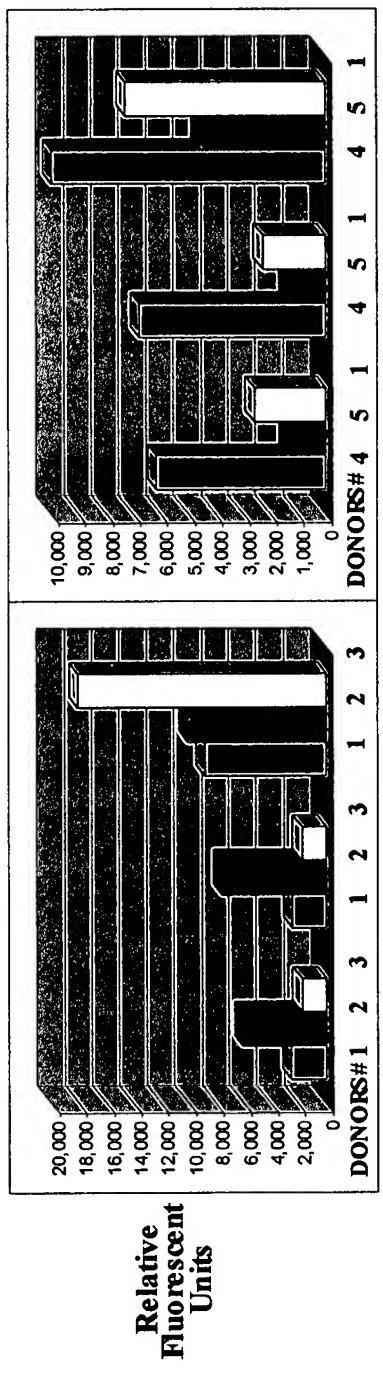


Figure 3

Comparing T-cell proliferation between:
hPBMCs not treated
hPBMCs treated with Biological Particles / Carriers
from unmodified cultures
hPBMCs PHA treated

Two biological carrier preparations (BCs) shown each tested on cells from 3 donors

Left Panel: HSV-2 based with donor #1, 2 & 3 cells
Right Panel: HIV-1 based with donor #4, 5 & 1 cells



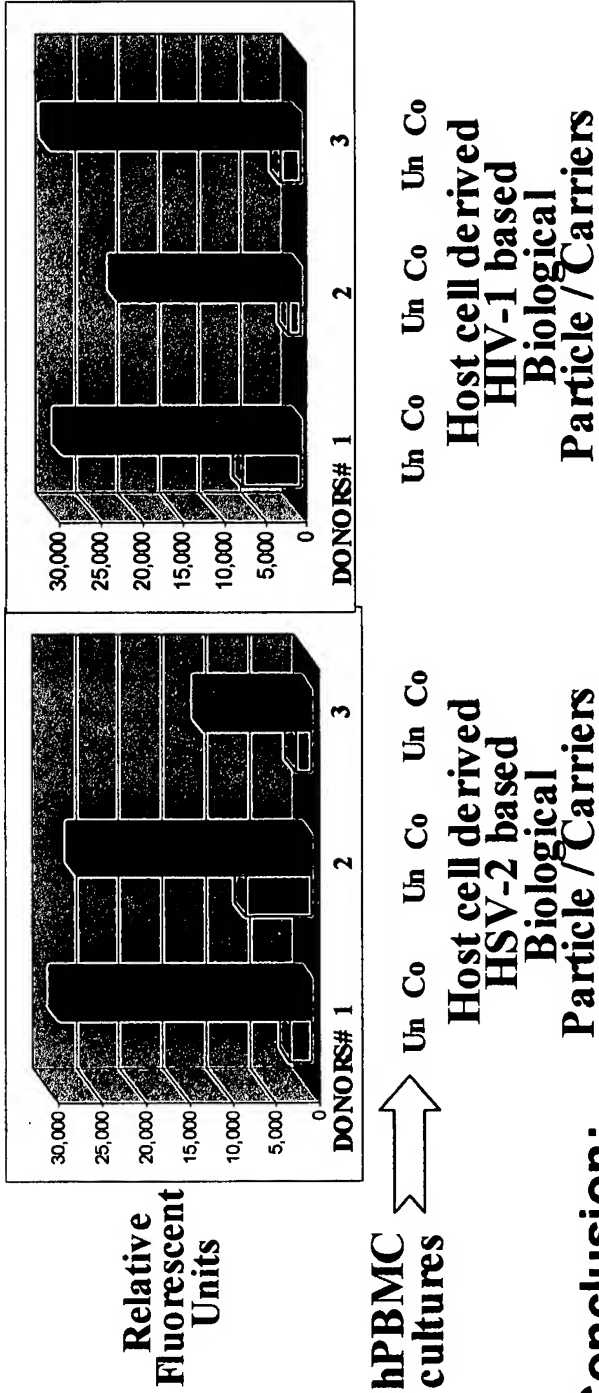
hPBMC cultures → Not Treated PHA Treated PHA
Treated with BCs from unmodified HIV-2 based cultures
Treated with BCs from unmodified HIV-1 based cultures

Conclusion:
Biological particles / carrier preparations from unmodified host cells are NOT stimulatory

Figure 4
Comparing T-cell proliferation with HSV-2 & HIV-1 based biological particle / carrier preparations:

Unmodified (Un) host cells
Costimulatory-transduced (Co) host cells

Unstimulated hPBMCs (not PHA-treated) were exposed to the indicated preparation
Left Panel: Compares 6 day treatment of donor #1, 2 & 3 T-cells with HSV-specific particles formed from Un and Co transduced host cells
Right Panel: Compares 6 day treated donor #4, 5 & 1 T-cells with HIV-specific particles formed from Un and Co transduced host cells



Conclusion:
Biological particle / carrier preparations derived from costimulatory transduced host cells are stimulatory